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Peabody Academy, at Salem, Mass., will be opened July 6th, under the direction of Prof. E. S. Morse, aided by Profs. G. L. Goodale, H. G. Straight, Dr. C. S. Minot, and Mr. John Robinson, John Sears and Charles Fish. The course is solely for teachers, and will be elementary in its character.

— A new Summer School of Biology. Professors Shepard and Ford announce their intention of establishing a Summer School of Biology at Drury College, Springfield, Mo., beginning July 1st, and continuing at least six weeks. Prof. Shepard studied for a time under Prof. Packard, while Prof. Ford was a student of Prof. Peck, the N. Y. State botanist.

— At the meeting of the Sixth Congress of Russian Naturalists, Prof. Andreieff spoke of the necessity of giving instruction in natural sciences in primary schools; and M. Gerd gave an address on the impulse which could be given to the study of nature in Russia, its flora and fauna, by the teachers of the primary schools.

— The Michigan State Pomological Society has, at the suggestion of Prof. A. J. Cook, offered two prizes, the first of fifty dollars, and the second of twenty-five, to be given to the neighborhood that shows most skill, thoroughness and secures best results in destroying the coddling moth.

— The Japanese Government are about to establish a Geological Staff, to whose care will be committed a geological survey of the whole of Japan, founded upon the plan of the Geological Survey of the United Kingdom.

— The second edition of V. Rattan's popular Botany of California has been recently published by A. L. Bancroft & Co., San Francisco.

— Mr. Charles C. Frost, the noted shoemaker botanist of Brattleboro, Vt., died last week aged seventy-five years.

— Prof. Thomas Bell, the well-known English naturalist, lately died aged eighty-seven.

— The following errata occur in the March number: p. 161, line four and ten, for *opademe* read *apodeme*; line eleven for *samite* read *somite*. In the April number, p. 247, line 11, and in explanation of Fig. 14, for moth, read butterfly.

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PROCEEDINGS OF SCIENTIFIC SOCIETIES.

NATIONAL ACADEMY OF SCIENCES, Washington, D. C., April 20, 1880.—The following papers were read: 1. Binocular Vision; Laws of Ocular Motion, by Joseph LeConte; 2. Hollow Water-Spouts and Sand-Spouts, by W. Ferrel; 3. On the Structure

of the Vertebrata of the Permian Period, by E. D. Cope; 4. On the Perforations of the Squamosal Bone of the Mammalia, by E. D. Cope; 5. Contributions to Meteorology, by Elias Loomis; 6. On the Structure of the Brain of *Limulus polyphemus*, by A. S. Packard, Jr.; 7. On an Instrument for Measuring Radiant Heat, by S. P. Langley; 8. On the Composition of Colors, by S. P. Langley; 9. The Sea Urchins of the *Challenger* Expedition, by Alexander Agassiz; 10. Size of the Brain in Extinct Animals, by O. C. Marsh; 11. On New Complex Inorganic Acids, by W. Gibbs; 12. On the Taconic System in Geology, by T. Sterry Hunt; 13. On the Telegraphic Determinations of Longitude by the U. S. Hydrographic Office, by Capt. F. M. Green, U. S. N.; 14. On the Announcement of the Discoveries of Intra-mercurial Planets by Telegraph, by D. P. Todd; 15. On the Nebula of Orion, by Prof. E. S. Holden; 16. On the Distribution of the *Zenopsis conchifera*, by Theo. N. Gill; 17. Revision of the Atomic Weight of Antimony, by Josiah P. Cooke; 18. On an Early Race of Man in Japan, by Edw. S. Morse; 19. Revision of Atomic Weight of Antimony, by Josiah P. Cooke; 20. Cloud-bursts, by Wm. Ferrel; 21. On the effect of railroad trains in transmitting vibrations through the ground as regards its effects on observations in fixed observatories, by H. M. Paul; 22. On the modifications suffered by Light on passing through a very narrow slit, by Lieut. Albert A. Michelson; 23. Some remarks on the supposed nature of the Sun's Corona; and also, on a supposed new Meteoric Silicate, by J. Lawrence Smith; 24. On some modern developments bearing upon the Nebular Hypothesis and other matters connected therewith, as well as on some previous changes, and miscellaneous notices, by Stephen Alexander. The attendance was full. A eulogy of the late Prof. Henry, by Prof. Newcomb, was read by Dr. Coues. Prof. W. H. Brewer and Major J. W. Powell were elected members.

NEW YORK ACADEMY OF SCIENCES, March 15.—Prof. Thomas Egleston spoke concerning the iron and coal resources of Virginia.

March 29.—Mr. J. M. Batchelder noticed the influence of electricity upon the growth of plants, and the Algæ of New York harbor were remarked upon by Mr. B. B. Chamberlin.

April 19.—Mr. I. C. Russell gave an account of recent observations on the geology of Hudson county, N. J. Dr. J. S. Newberry remarked on the vegetation of the vicinity of New York in the Triassic age. Mr. B. Hitchcock read a paper on the physics of vision with the compound microscope.

May 3.—Prof. G. Macloskie made a communication on the structure of the vertebrate skull.

BOSTON SOCIETY OF NATURAL HISTORY. April 7.—Mr. S. H. Scudder described the Devonian insects and their relation to the

doctrine of descent. Mr. W. O. Crosby remarked on the age and succession of the crystalline rocks of Guiana and Brazil.

April 21.—Mr. W. O. Crosby concluded his remarks on the age and succession of the crystalline rocks of Guiana and Brazil. Mr. E. Burgess read a paper on the structure of the mouth-organs of Butterflies, and some other points in their anatomy.

May 5.—Annual meeting for the election of officers and for the presentation of the reports of the custodian, secretary, etc. Mr. S. H. Scudder was elected president. Dr. B. J. Jeffries remarked on the present position of the question of the development of the color-sense.

AMERICAN GEOGRAPHICAL SOCIETY, NEW YORK, April 26.—A paper on Japan as it is, was read by Rev. Edward W. Lyle.

CALIFORNIA ACADEMY OF SCIENCES, April 5.—Mr. B. B. Redding exhibited a very artistically constructed fishing fly, manufactured and used by the Indians. The Indians, he said, will beat us in fishing. By the same gentleman, twigs of the *Larrea mexicana*, with the lac insect imbedded, were shown. These he had procured from Arizona since Prof. Silliman read a paper on the subject. He expressed a doubt about there being a sufficient quantity to make the extraction of the shellac and lac-dye a profitable industry, though the process is very simple.

[NOTE.—We have just received a paper on this lac from Mr. R. E. C. Stearns, for early publication.—*Editors.*]

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SELECTED ARTICLES IN SCIENTIFIC SERIALS.

AMERICAN JOURNAL OF SCIENCE AND ARTS.—May. Outlet of Lake Bonneville, by G. K. Gilbert. Chemical and geological relations of the atmosphere, by T. Sterry Hunt. Archæan rocks of Wasatch mountains, by A. Geikie. The sternum in Dinosaurian reptiles, by O. C. Marsh.

PSYCHE.—March. Contains a valuable résumé of advances in the anatomy of insects during 1878 and 1879, by E. Burgess.

THE GEOLOGICAL MAGAZINE.—April. Note on the geographical distribution of volcanoes, by J. Milne.

NATURE.—April. Mr. H. N. Moseley is publishing in *Nature*, for this month, a valuable lecture on deep sea dredging and life in the deep sea.

QUARTERLY JOURNAL OF MICROSCOPICAL SCIENCE.—April. The coffee leaf disease of Ceylon, by W. T. Thiselton Dyer. Development of the kidney in its relation to the Wolffian body in the chick, by A. Sedgwick. Notes on the development of Araneina, by F. M. Balfour. Some teachings of development, by E. Schäfer. On the histology of Hydra, by T. J. Packer. The Orthonectida, a new class of the phylum of worms, by A. Giard.